



Moar Dakka

by Arya Akhavan (December 2014)

Angles for R.I. = 1.540

117 + 16 girdles = 133 facets

4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.261$ $U/W = 0.261$

$P/W = 0.473$ $C/W = 0.246$

$Vol./W^3 = 0.289$

PAVILION

P1	43.99°	02-22-26-46-50-70-74-94	Cut to centerpoint.
P2	42.00°	06-18-30-42-54-66-78-90	Meet at culet.
G1	90.00°	02-22-26-46-50-70-74-94	Set stone size.
G2	90.00°	09-15-33-39-57-63-81-87	Meet P1, P2, G1
P3	43.48°	01-23-25-47-49-71-73-95	Meet P1, G1
P4	49.01°	09-15-33-39-57-63-81-87	Level girdle.

CROWN

C1	61.33°	02-22-26-46-50-70-74-94	Set girdle width.
C2	57.99°	09-15-33-39-57-63-81-87	Level girdle.
C3	56.86°	96-24-48-72	Meet G1, C1
C4	51.50°	12-36-60-84	Meet G2, C2
C5	48.88°	05-19-29-43-53-67-77-91	Meet G1, G2, C1, C2
C6	46.75°	96-24-48-72	Meet C1, C3, C5
C7	39.39°	04-20-28-44-52-68-76-92	Meet C1, C3, C5, C6
C8	43.19°	05-19-29-43-53-67-77-91	Meet C1, C3, C5, C6, C7
C9	43.89°	06-18-30-42-54-66-78-90	Meet C2, C4, C5
C10	27.50°	12-36-60-84	Meet C4, C9
C11	23.03°	08-16-32-40-56-64-80-88	Meet C7, C8, C9, C10
C12	20.21°	96-24-48-72	Meet C6, C7
C13	16.73°	12-36-60-84	Meet C10, C11
C14	12.00°	96-24-48-72	Meet C11, C12, C13
T	0.00°	Table	Meet C13, C14

At some point, I tried to take my "Sierpinski's Partial Second" crown and mate it with a brilliant crown, and then it all went downhill from there. This domed design still performs very well, and you can do some very interesting frosting effects with it, but it should really only be used on large stones. Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I recommend giant citrines and topazes.

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